OCCUPATIONAL HEALTH AND SAFETY

HERITAGE GRANT PROGRAM

S T A T U S R E P O R T

October 20, 1986

INTRODUCTION

This report contains a brief description of projects which have been funded by the Occupational Health and Safety Heritage Grant Program.

Approved projects are those which are currently in progress. The start-up and the expected completion dates are shown. The most recently approved projects are listed first.

Completed projects are those for which a final report has been received and materials are available. The start-up and actual completion dates are indicated. The most recently completed projects are listed first.

In both the approved and completed-project sections, projects are grouped according to whether they are research, education or conference awards.

The overall purpose of the Occupational Health and Safety Heritage Grant Program is to support research, training and education activities with the objectives of (a) preventing injuries and ill health resulting from employment, and (b) promoting the health and well-being of Alberta workers through improved working conditions. Activities may include the following: applied research studies, the development and evaluation of innovative educational programs, the development of publications and other information materials, the planning of workshops, seminars and conferences, and training grants.

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STATUS REPORT

October 20, 1986

APPROVED PROJECTS

I RESEARCH PROJECTS

Neurological Actions of Sulfide. Department of Pharmacology, University of Alberta ($93,000 allocated). July, 1986.

To examine the effects of sulfide on neurological functioning including neurotransmitters and their receptors, and on several behavioural measures.

Progress report due: January, 1987
Progress report due: July, 1987

A Systematic Assessment of Protective Work Clothing. Clothing and Textiles Department, University of Alberta ($50,000 allocated). July, 1986.

To develop a valid assessment system for protective clothing which includes both laboratory tests and a framework for wear trials that could be used by industry.

Progress report due: January, 1987
Progress report due: August, 1987

Respiratory Protection Equipment Project. Manecon Partnership ($37,500 allocated). July, 1986.

To describe how present respiratory equipment may be failing to meet the service conditions found at Alberta work sites, and to develop appropriate testing requirements and test plans for respiratory protection equipment used in the province.

Progress report due: January, 1987
Final report due: July, 1987

A Multidisciplinary Assessment of Low Doses of Hydrogen Sulfide. Faculty of Medicine, University of Calgary ($150,000 allocated). July, 1986.

To determine whether exposure to low levels of H_2S alters the structure and/or function of various tissues of the mature and developing mammalian system.

Progress report received: October, 1986
Progress report due: May, 1987

(APPROVED RESEARCH PROJECTS con't)

Head Injury, Memory Impairment and Occupational Safety. Department of Psychology, University of Alberta ($56,100 allocated). June, 1986.

To develop a series of tests to detect memory and cognitive impairment which may affect safe performance on the job.

Progress report due: March, 1987
Progress report due: May, 1987

Survey and Occupational Hygiene Evaluation of Respiratory Exposure to Dusts, Free Silica, Asphalt Smoke and Benz (a) Pyrene, of Alberta Road Building Workers. Alberta Roadbuilders Associaton ($82,000 allocated). June, 1986.

To monitor the dusts, silica and carcinogenic components of asphalt smoke generated by roadbuilding, to relate exposure information to on-site work practices and conditions, and to develop a set of recommendations aimed at correcting any hazardous situations.

Final report due: December, 1986

Recycling and Disposal of Chemical Wastes - Phase V. Department of Chemistry, University of Alberta ($42,000 allocated). March, 1986.

To develop safe and practical disposal or recycling methods for small quantities of a wide variety of chemicals (including carcinogenic agents and chemotherapy drugs) used by workers in teaching, research, analytical, quality control and hospital laboratories.

Final Report due: August, 1987

Mortality Experience of Firefighters. Faculty of Medicine, University of Alberta ($55,373 allocated). March, 1986.

To compare the mortality profile of firefighters with that of comparable male populations of Albertans, and to examine the distribution of cause of death, especially with respect to lung cancer, chronic obstructive lung disease and cardiovascular disease.

Progress Report due: December, 1986
Progress Report due: June, 1987

(APPROVED RESEARCH PROJECTS con't)

Hearing Protection Device Evaluation. University of Alberta ($37,800 allocated). January, 1986.

To develop a laboratory procedure to evaluate hearing protection devices, and to determine the acoustic performance and physical characteristics of several hearing protection devices commonly used in the work place.

Interim Report due: September, 1986
Final Report due: March, 1987

Organization Design, Worker Safety and Petrochemical Accidents. Department of Organizational Analysis, University of Alberta ($63,400 allocated). January, 1986.

To examine the role of the organization in the prevention and management of industrial accidents. Organizational factors such as goal and mission statements, reporting structures, communications, rules and regulations, rewards and penalties, and management styles will be examined for their impact in enhancing or reducing safety risks to workers. Four major petrochemical incidents which have occurred in Alberta will be analyzed.

Final Report due: December, 1986

Fire Spread through Stratified Fuel-Air Mixtures. Department of Mechanical Engineering, University of Calgary ($44,500 allocated). January, 1986.

To study the flammable zone around an uncontrolled discharge of fuel vapours in order to determine the fire and explosion hazards. The location of the flammable zone, the rate of fire spread and the time required for the zone to become non-flammable will also be examined.

Interim Report due: October, 1986
Final Report due: March, 1987

(APPROVED RESEARCH PROJECTS con't)

Back Injury Prevention. B. Stringham, Sage Institute ($76,500 allocated). January, 1986.

To determine the effect of a Sage Analysis approach on the number of back injuries at two high-risk work sites. The employers and workers at a mine and in a hospital will identify the possible causes of back injury at their place of work and develop preventive strategies for their particular setting. A manual will be developed to describe the procedures to allow other companies to conduct a similar analysis in their own workplaces.

Interim Report due: June, 1986
Final Report due: June, 1987
Follow-up Report due: June, 1989

Mechanisms of Worker Exposure to Ethylene Oxide in Alberta Hospitals. Department of Community Health Sciences, Faculty of Medicine, University of Calgary ($65,000 allocated). October, 1985.

To conduct a survey of workers engaged in sterilizer operations using ethylene oxide (ETO) at Alberta health care institutions, to measure ETO exposure at the sterilization facility in a sample of these institutions, and to produce realistic guidelines in the safe use of ETO in hospitals.

Interim Report received: January, 1986
Final Report due: December, 1986

Occupational Health and the Small Business Owner-Manager. Faculty of Medicine, University of Calgary ($31,300 allocated). October, 1985.

To conduct an exploratory study which will describe and analyze the occupational health beliefs, attitudes and practices of small business owner-managers in the construction, manufacturing, transportation, communications and utilities industries.

Interim Report received: October, 1986
Final Report due: March, 1987

(APPROVED RESEARCH PROJECTS con't)

Research Support for New Professor in Occupational Health. Dept. of Health Services Administration and Community Medicine, Faculty of Medicine, University of Alberta ($245,000 allocated). August, 1984.

To establish a Chair in Occupational Health for the purposes of (1) initiating and conducting research in the field of occupational health; (2) providing consulting services to industry, labour and government in the field of occupational health; (3) developing current teachings in occupational health to medical undergraduates and post-graduate students; (4) providing clinical services to workers.

Interim report received: July, 1985 and December, 1985
Final report due: June, 1986 (on yearly basis)

(APPROVED PROJECTS con't)

II EDUCATION PROJECTS

Video Training Aid for Chainsaw Operators. Alberta Forest Products Association ($18,500 allocated). August, 1986

To produce one videotape on chain saw safety to be used by layman trainers in the instruction of woodworkers. The videotape will support a handbook which is already complete.

Progress report due: December, 1986
Final report due: March, 1987

Emergency Evacuation Procedure for Extended Care Facilities. St. Michael's Extended Care Centre ($2,100 allocated). August, 1986.

To complete production of a videotape which describes a disaster plan exercise for the training of workers in an extended care facility.

Final report due: January, 1987

Welding Safety Videotape. Northern Alberta Institute of Technology ($127,000.00 allocated). July, 1986.

To produce five modules, each comprising instructor and student printed materials and a videotape, on welding safety for use in a variety of training programs.

Progress report due: November, 1986
Final report due: March, 1987

Educational Assistance to Attend the University of Surrey. Elizabeth J. Williams ($21,500.00 allocated). July, 1986.

To complete postgraduate study in toxicology at the University of Surrey in Guildford, England.

Final report due: October, 1987

Occupational Safety Credit Program. Lethbridge Community College ($6,500.00 allocated). July, 1986.

To assure the continuation of the Occupational Safety Training Program at the College by underwriting three occupational safety courses in the 1986/87 academic year.

Progress report due: January, 1987
Final report due: May, 1987

(APPROVED EDUCATION PROJECTS con't)

Safe Log Hauling Practices. Alberta Forest Products Association ($21,400 allocated). July, 1986.

To develop a booklet that outlines the basic components of log hauling in order to increase worker safety in the log hauling aspects of the forest industry.

Final report due: December, 1986

Oil Pipeline Safety Procedures Training Film and Manual. Interprovincial Pipe Line Ltd. ($47,200 allocated). July, 1986.

To develop a safety training film and manuals to demonstrate the proper procedures to be followed for the repair of a damaged oil pipeline, the maintenance of a pipeline and the clean up of oil spills for an oil pipeline.

Progress report due: November, 1986
Final report due: March, 1987

Hydrogen Sulfide Training Program. Petroleum Industry Training Service ($99,000 allocated). July, 1986.

To update two training programs and to develop a new supervisor's course to prevent H_2S-related illnesses and fatalities in the petroleum industry.

Progress report due: November, 1986
Final report due: April, 1987

A Training Program for Personal Safety in the Taxi Industry. Taxi Industry Planning Group ($3,000.00 allocated). June, 1986.

To prepare a detailed proposal for a project to develop a personal safety training program for the Alberta taxi industry.

Final report due: July, 1986

Hazardous Gases - Situation Update. Vicom Ltd. ($32,000 allocated). May, 1986.

To produce an introductory videotape to inform workers in a wide variety of industries of the events surrounding actual incidents, injuries and fatalities associated with hazardous gas environments.

Final report due: October, 1986

(APPROVED EDUCATION PROJECTS con't)

Woods Worker Safety Program Development - Phase II. Alberta Forest Products Association ($77,000 allocated). March, 1986.

To develop an instructional safety package consisting of a program to train trainers, an instructor's manual and associated training aids for use by layman trainers to teach logging safety and chain saw safety to woods workers.

Final Report due: January, 1987

A Health and Safety Guide for Small Business. Canadian Organization of Small Business ($97,600 allocated). March, 1986.

To develop a guidebook on occupational health and safety which will not only assist the small business owner/manager to identify problem areas but also outline methods by which the problems can be eliminated.

Progress report due: March, 1987
Progress Report due: August, 1987

Proposal for a Project to Develop a General Safety Regulation Guidebook. Steering Committee, Safety Regulation Project ($4,500 allocated). February, 1986.

To prepare a detailed proposal for a project to develop a guidebook on the use and interpretation of the Alberta General Safety Regulation.

Final Report due: May, 1986

Distance Learning Occupational Health Nursing Certificate Program. Kiyoko Joyce Tobo ($2,900 allocated). October, 1985.

A student in the Occupational Health Nursing Program will receive financial assistance to complete the program.

Interim Report due: June, 1986.
Final Report due: June, 1987

(APPROVED EDUCATION PROJECTS con't)

Visiting Scholar: Dr. K. Yoshida. Department of Community Health Services, Faculty of Medicine, University of Calgary ($27,375 allocated). September, 1985.

To assist with the support of a visiting professor in industrial hygiene from the University of Saskatchewan and the Saskatchewan Research Council during a one-year period of research and collaboration at the University of Calgary.

Interim Report received: May, 1986
Final Report due: October, 1986

Safe Work Practice Training Program (Phase II). Oilfield Contractors Association ($51,500 allocated). September, 1985.

To further develop the training program for the industry which includes the production of one new safety training videotape and instructor materials on brushing and clearing.

Interim Report received: November, 1985
Interim Report received: February, 1986
Final Report due: August, 1986

Training Assistance - Peggy Szumlas. Peggy Szumlas ($14,000 allocated). August, 1985.

To provide assistance to enable a student to complete her graduate studies in the Master's of Nursing degree program at the University of Alberta, specialty in Occupational Health.

Interim Report received: September, 1986
Final Report due: May, 1987

City of Medicine Hat Electric Utility Safety Program. City of Medicine Hat ($5,644 allocated). July, 1985.

To provide support for obtaining an electrical safety display board to be used in a variety of educational programs.

Final Report due: June, 1986

(APPROVED EDUCATION PROJECTS con't)

Education Program Development Project in Occupational Health & Safety. Athabasca University ($47,700 allocated). April, 1985.

To determine the program and course content relevant to the development of a degree specialization in occupational health and safety at Athabasca University. Occupational health and safety professionals will be surveyed and interviewed.

Interim report received: October, 1985
Final report due: October, 1986

Water and Sewer Safety Training/Audio-Visual Series. City of Medicine Hat, H. Arndt ($1,500 allocated). March, 1985.

To develop audio-visual materials on sewage and water treatment safety using photographs of local worksites and to purchase three audio/slide presentations from the National Association of Sewer Service Companies.

Final Report due: November, 1986

Development of Occupational Health Nursing Certificate Program for Self-Directed Study. Grant MacEwan Community College ($395,000 allocated). January, 1985.

To redevelop the Occupational Health Nursing Certificate Program at Grant MacEwan Community College for distance delivery of self-directed study to be available to registered nurses throughout Alberta.

Interim report received: June, 1985 describing the development of the first five modules
Interim report received: March, 1986 and June, 1986
Final report due: December, 1987

Master's Degree in Occupational Hygiene. Manh-Dat Quach ($10,090 allocated). September, 1984.

To provide support to enable an Alberta industrial ventilation engineer to pursue a Master's Degree.

Final report due: May, 1987

(APPROVED EDUCATION PROJECTS con't)

Utility Arborists Safety Course. Industrial Vegetation Management Association of Alberta ($16,075 allocated). January, 1984.

To train workers in the various aspects of safety in the tree trimming and brushing industry. This is a pilot project being carried out at Olds College which, if successful, will be provided on an ongoing basis by the industry.

Final report due: December, 1986

Industrial Eye Protection Film. Alberta Optometric Association ($4,000 allocated). February, 1983.

To assist in the production of a film designed to enhance employee acceptance of safety eyewear and compliance with industrial eye protection programs.

Final report due: June, 1986

(APPROVED PROJECTS con't)

III CONFERENCE AWARDS

The Evolution of Occupational Health Services in Canada up to the Year 2000. Canadian Occupational Health Association ($14,000 allocated). July, 1986.

To support an Alberta conference which will review the existing patterns of occupational health services in Canada, together with their legal, professional and educational infrastructure.

Final report due: March, 1987

Symposium on Immunotoxicology. Faculty of Medicine, University of Alberta ($9,500 allocated). March, 1986.

To support the initial planning and development of the Second International Symposium on the Immunological System as a Target for Toxic Damage, a major international conference on immunotoxicology to be convened in 1988 in Alberta.

Final Report due: June, 1986

1986 Red Deer and District Utility Co-ordination Committee Safety Seminar. Red Deer and District Utility Co-ordination Committee ($2,500 allocated). November, 1985.

To sponsor a safety seminar to make workers and contractors aware of their obligations under the Occupational Health and Safety Act and Regulations and other provincial and local legislation as they relate to construction activities. A pamphlet will describe to other communities how to organize a similar seminar.

Final Report due: April, 1986

Underground Communication Project. Alberta Speleological Society ($3,040 allocated). June, 1985.

To provide support to enable two previous Grant recipients to make a presentation on the safety applications of underground radios at a conference of the National Speleological Society and to assist in further development and construction of underground radios.

Final Report due: August, 1986

COMPLETED PROJECTS

I RESEARCH PROJECTS

Recycling and Disposal of Chemical Wastes (Phase IV). Department of Chemistry, University of Alberta ($40,500 expended). August, 1985 - October, 1986.

To continue to survey the current chemical and related literature for spillage and waste disposal methods and for chemical reactions which might be utilized in the disposal or recycling of hazardous compounds. To develop and test new methods for disposing or recycling hazardous waste compounds.

Guidelines for Safety Features in the Design of Coal Silos and Loadout Tunnels. Associated Mining Consultants Ltd. ($42,300 expended). January, 1986 - October, 1986.

To produce guidelines for safety features designed to prevent explosion and fire in the storage and loadout of clean coal.

Women Managers: Stress, Health and Coping. Dept. of Educational Psychology, University of Alberta ($15,860 expended). January, 1985 - September, 1986

To identify the major pressures and stresses experienced by male and female managers, to develop high risk profiles, and to formulate recommendations as to what individual and organizational approaches might minimize stress-related illnesses experienced by women managers.

Reference Guide to Strata Control in the 1980's. Coal Mining Research Company ($17,579 expended). January, 1986 - August, 1986.

To assess the latest technologies for predicting roof failure which have potential application in Western Canadian coal mines and underground oil sand mining in Alberta. The work of agencies in other jurisdictions will be reviewed.

An Investigation of Factors Influencing Perception, Evaluation and Response to Hazards (Phase I). W. Andrew Harrell ($7,482 expended). March, 1986 - June, 1986.

To conduct the pretest phase of a research study that would identify features of the job which influence workers' hazard perceptions and safe performance. The interview and observation techniques were pilot tested.

(COMPLETED RESEARCH PROJECTS con't)

Stress Reduction in Nurses: Effectiveness of Preventative Programs. Michael Andrew Mackie ($6,206 expended). June, 1985 - April, 1986.

To perform a critical literature review of empirical studies examining stress in nursing or describing preventative stress programs for nurses, as well as to conduct a survey of such preventative programs currently in place in Alberta in order to identify the strengths and weaknesses of stress prevention programs which have been developed for nurses.

An Epidemiological Study of Fatal Carbon Monoxide Poisoning in Alberta from 1977-1982. Dept. of Health Sciences, University of Calgary ($17,875 expended). April, 1984 - March 1986.

To determine the extent of the problem and to relate the findings to the occupational setting in a search for potential preventive strategies for increased worker health and safety.

Effect of Working Environment on Pregnancy. Dept. of Community Health Services, University of Calgary ($61,235 expended). October, 1983 - February, 1986.

The work histories and related information on cases and matched controls will be compared in an effort to determine whether the risk of an abnormal pregnancy is greater in some occupational classes or settings than others.

Research and Development to Create an Alberta Construction Safety Association. Alberta Construction Association ($31,270 expended). June, 1985 - February, 1986.

To identify the administrative, organizational and other features which would be required in the establishment and operation of a viable industrial safety association.

Recycling and Disposal of Chemical Wastes (Phase III). Department of Chemistry, University of Alberta ($24,640 expended). October, 1984 - November, 1985.

To develop means of disseminating widely throughout Alberta information on safe methods of waste chemical disposal and recycling, and to establish an information centre to respond to enquiries.

E.M.G. Assessment of Back Injury: A Validation Study. C.C.S.D. Management Ltd. ($43,500 expended). September, 1984 - August, 1985.

To validate the use of electromyographic techniques which detail the muscle firing patterns of the back and stomach as an assessment procedure for back injury.

(COMPLETED RESEARCH PROJECTS con't)

Hydrogen Sulfide Effects on Cardiorespiratory Variables during Exercise. Department of Physical Education, University of Alberta ($74,000 expended). July, 1984 - June, 1985.

To examine the effects of inhalation of low levels of H_2S on human oxygen consumption, heart rate, blood pressure, and blood lactate levels under four different conditions of exercise.

Compliance Profile for Health Technologists. Faculty of Environmental Design, University of Calgary ($16,925 expended). February, 1984 - May, 1985.

To measure compliance with the health and safety rules and codes of practice in Alberta at the individual technologist level and assess the individual and organizational commitment to health and safety.

Recycling and Disposal of Chemical Wastes (Phase II). Department of Chemistry, University of Alberta ($21,845 expended). September, 1983 - November, 1984.

To continue with testing disposal and recycling procedures for various chemical wastes in an effort to develop safe disposal and recycling methods and to develop an information service, accessible to the public, on the subject area.

An Exploratory Survey of Factors Influencing Farm Accidents in Alberta (Phase II). W. Harrell ($25,022 expended). December, 1982 - July, 1984.

To conduct the survey developed in Phase I. The research will increase understanding of those factors contributing to and related to accidents experienced on farms in Alberta, and will result in recommendations on how the findings can be incorporated into farm safety education programs.

Bee Sting Hypersensitivity. J. Day ($20,000 expended). April, 1982 - March, 1984.

To establish an effective and inexpensive procedure to assess individuals' sensitivity to honeybee stings and to determine how best to manage those persons at risk with venom immunotherapy. The research focuses upon Alberta beekeepers and their reactions to bee stings in an attempt to tailor immunotherapy programs to the individual.

(COMPLETED RESEARCH PROJECTS con't)

Detection of Metabolites Due to Hydrogen Sulfide Exposure. J. Donini ($22,850 expended). May, 1982 - February, 1984.

To define reliable pathological markers for H_2S exposure which should assist in identifying H_2S accident victims and ultimately lead to better prevention. Indirect benefits from the exchange of information on laboratory techniques will likely result through contacts among the applicant, divisional staff and the local academic community.

Recycling and Disposal of Chemical Wastes (Phase I). Department of Chemistry, University of Alberta ($18,900 expended). August, 1982 - October, 1983.

To review, test, develop, and document methods of waste chemical disposal and recycling to ensure that these methods are safe for chemical laboratory and storage workers and are environmentally acceptable. A Hazardous Chemicals Information and Disposal Guide and an Information Centre will be available to the public in Alberta.

Cooperative Industrial Safety Professional (Phase II). Nisku Medical Services ($51,671 expended). September, 1982 - September, 1983.

To conduct the pilot study developed in Phase I. This project will assess the feasibility of providing a cooperative safety service through the private sector, and if successful, may serve as a prototype on which similar programs could be modeled throughout the province.

Underground Position-Location Using Low Frequency Magnetic Induction. Alberta Speleological Society ($1,000 expended). October, 1981 - June, 1983.

To complete field testing of an experimental communication system which can operate through rock. The research will contribute to enhancing mine rescue operations.

Occupational Health and Safety in the Police Work Place. D. Milloy ($6,580.25 expended). June, 1982 - May, 1983.

To identify the sources and symptoms of psychophysiological stress encountered in the police workplace. A major benefit of this project is the methodological assessment of existing studies which has the potential value of making researchers in this field more aware of problems in past research and pertinent concerns for new research.

(COMPLETED RESEARCH PROJECTS con't)

Feasibility Study for Safe Rig Tripping Concept. Inveco ($58,119 expended). August, 1982 - March, 1983.

To conduct a feasibility study of the potential mechanization of the pipehandling activities of rig work in order to enhance safety conditions on the rig floor.

Cooperative Industrial Safety Professional (Phase I). Nisku Medical Services ($16,500 expended). May, 1982 - September, 1982.

To do the preliminary research for a feasibility study of using the services of a safety professional on a cooperative basis. The project will determine which companies will participate in the pilot study.

An Exploratory Survey of Factors Influencing Farm Accidents in Alberta (Phase I). W. Harrell ($8,422 expended). October, 1981 - June, 1982.

To develop a survey instrument to collect information from persons involved in farming to identify individual behaviours and characteristics which may be associated with farming accidents. The project will include: gaining access to respondents, preparation of instruments, pretesting, and development of sampling procedures.

An Inventory of Specialists and Others involved in Occupational Hygiene Activities in Alberta. R. Sloan ($12,000 expended). June, 1981 - March, 1982.

To provide an inventory of persons and companies involved in various occupational hygiene activities in Alberta.

(COMPLETED PROJECTS con't)

II EDUCATION PROJECTS

A Training Manual and Film for Materials Handling around Draglines. Coal Mining Research Centre ($44,975 expended). June, 1985 - August, 1986.

To produce an instructional film and printed manual on safety precautions and procedures for materials handling in the dragline operations of surface coal and tar sands mines.

Occupational Health Nursing Certificate Program (Calgary) - (Phase II). Grant MacEwan Community College ($70,000 expended). January, 1984 - July, 1986.

To allow Alberta nurses working in occupational health nursing positions in the Calgary area to take the Occupational Health Nursing Certificate Program at a cost equivalent to on-campus rates at Grant MacEwan Community College.

Employee Assistance Program and Professional Driver Improvement Course. Alberta Trucking Association ($10,000 expended). December 1985 - July, 1986.

To plan an employee assistance program and to prepare a detailed proposal for a course which will deal with the prevention of materials handling injuries for truck drivers.

Medicine Hat and District Safety Week. Alberta Association of Safety Personnel ($1,800 expended). October, 1985 - March, 1986.

To develop a pamphlet which would be available to communities interested in organizing a safety week in order to promote safe work practices.

Development of Occupational and Industry-Specific Education Materials. Alberta Federation of Labour ($58,467 expended). September, 1984 - March, 1986.

To develop and provide specific hazard and control information in video and print to hospital and health care workers.

Material Handling Training Workshop. International Brotherhood of Boilermakers Local 146 ($4,961 expended). April, 1985 - February, 1986.

To develop a worker handbook for use in the safety training program in material handling practices.

(COMPLETED EDUCATION PROJECTS con't)

Safe Practices when Switching on the RTE, M.O.S.T. TransAlta Utilities - Trades Training Centre ($2,400 expended). February, 1985 - December, 1985.

To produce a ten minute videotape training aid, highlighting the proper switching sequences and procedures to use with the M.O.S.T. (modular oil switching terminal). This video will dramatically show the consequences of incorrect procedures.

Metal Trades Handbook. Industrial Publishing & Training Consultants Ltd. ($5,000.00 expended). June, 1985 - November, 1985.

To develop a pocket sized (450 pages), multi trade safety and trade reference book for every metal working industry, including construction, fabrication, plant operation and maintenance.

Occupational Safety Certificate Program Course Development Project. Faculty of Extension, University of Alberta ($28,700 expended). August, 1987 - October, 1985.

To prepare a detailed outline, special reference materials, and instructors' manuals for the safety and hygiene courses in the Occupational Safety Certificate Program. This will contribute to the quality and consistency of course content.

Safe Work Practices Manual for Power Line Contractors. Tri-M Loss Control Systems Ltd. (Alberta Line Contractors) ($9,350 allocated). January, 1984 - September, 1985.

To update and revise the existing Safe Work Practices Manual which offers accident prevention guidance to employers and employees.

Safety Program Development for the Harvesting Activities of the Alberta Forest Industry. Alberta Forest Products Association ($145,585 expended). March, 1984 - September, 1985.

To develop and produce educational materials to promote safety awareness among woods workers in the Alberta forest industry.

Professional Development Program for Safety Practitioners. Alberta Association of Safety Personnel ($22,425 expended). May, 1985 - September, 1985.

To identify core competencies for first line safety practitioners to be used later as the basis of a competency-based training program.

(COMPLETED EDUCATION PROJECTS con't)

A Training Manual and Film for Coal Mine Rib Control. Coal Mining Research Centre ($41,290 expended). January, 1984 - July, 1985.

To produce a training film and manual for presentation to underground coal mine personnel to demonstrate the mechanics of failure of the coal mine rib.

Safe Work Practices Training Program - (Phase I) Supplement. Oilfield Contractors Association ($12,300 expended). January, 1985 - May, 1985.

With the assistance of an educational consultant, to supplement the instructor manual and student materials from Phase I, in which an audio-visual safety training program was developed to instruct supervisors and workers in the awareness and control of hazards in various aspects of oilfield construction work.

Alberta Trucking Association Safety Program (Phase II). Alberta Trucking Association ($41,246 expended). March, 1984 - April, 1985.

To improve truck driver's attitudes and ability to drive a vehicle safely.

Health, Safety and Accident Prevention (Phase II). Alberta Construction Association ($150,000 expended). August, 1983 - April, 1985.

To develop a safety training program including three videos aimed at increasing construction workers' awareness of proper safety procedures which should ultimately lead to a decrease in job-site accidents.

Tower Rescue. Tri-M Loss Control Systems Ltd. ($12,528 expended). March, 1984 - March, 1985.

To establish a transmission tower rescue procedure for victims of electrocution or other injury. The procedure will be videotaped for use as an educational tool by electrical utilities and contractors.

A Program to Develop and Evaluate Advanced Instructor Education. Alberta Federation of Labour ($52,928 expended). March, 1984 - March, 1985.

To increase instructor knowledge and further develop instructor skills. The materials and educational sessions will expose the instructors to more technical occupational health and safety topics in layman's terms.

(COMPLETED EDUCATION PROJECTS con't)

Canadian Summer School on Occupational Health. Alberta Committee on Occupational Safety and Health (COSH), Mona Sykes ($1,468 expended). June, 1984 - August, 1984.

To provide support to an officer with a safety organization to further her education and teaching skills in health and safety, including how to evaluate the effectiveness of health protection programs in industry.

Canadian Summer School on Occupational Health. The United Steelworkers of America, Alex Gallacher ($2,000 expended). July, 1984 - August, 1984.

To provide support to a union representative to further his education and teaching skills in health and safety, including how to evaluate the effectiveness of health protection programs in industry.

Safe Work Practice Training Program. Oilfield Contractors Association ($87,643 expended). January, 1983 - July, 1984.

To develop an audio-visual safety training program including three videos designed to instruct supervisors and workers in the awareness and control of hazards in various aspects of oilfield work.

Program Development: Occupational Hygiene Technology Program. Mount Royal College ($35,715 expended). April, 1983 - February, 1984.

To retain the expertise and knowledge acquired to date in the Occupational Hygiene Program at Mount Royal College and to allow the development of advanced courses in occupational hygiene.

Alberta Trucking Association Safety Program (Phase I). Alberta Trucking Association ($35,000 expended). July, 1982 - February, 1984.

To prevent trucking accidents through safety promotion and the development of safety training programs throughout the Alberta trucking industry.

Health and Safety Training for Labour Representatives. Alberta Federation of Labour ($369,315 expended). August, 1982 - December, 1983.

To train a core group of occupational health and safety instructors who will in turn conduct courses for workers which will enable them to identify and effectively combat health and safety hazards in their workplace.

(COMPLETED EDUCATION PROJECTS con't)

Diploma Program, Occupational Health and Safety. M. Mackie ($500 expended). November, 1983 - December, 1983.

To assist a student in completing the Post Baccalaureate Diploma Program, Occupational Health and Safety, McMaster University.

Guest Lecturer, Dr. O.L. Lloyd. Faculty of Medicine, University of Alberta ($1,400 expended). July, 1983 - November, 1983.

To solicit Dr. Lloyd's expertise in the establishment of an occupational health research program at the University of Alberta. Dr. Lloyd also presented a number of lectures in both Edmonton and Calgary.

A Utilities Training Film - "The Operators". Calgary Utility Coordinating Committee ($23,000 expended). September, 1982 - October, 1983.

To produce an educational film designed to prevent overhead and underground utility contacts which will be used in safety seminars, utilities' training programs, and by other appropriate jurisdictions.

Occupational Health Nursing Program Off-Campus (Calgary). Grant MacEwan Community College ($51,800 expended). November, 1981 - August, 1983.

To allow Alberta nurses working in occupational health nursing positions in the Calgary area to take the Occupational Health Nursing Certificate Program at a cost equivalent to on-campus rates at Grant MacEwan Community College.

Base Friction Modelling Training Program. Coal Mining Research Centre ($45,900 expended). May, 1982 - July, 1983.

To produce educational materials including video and slide demonstrations of a base friction model which demonstrates the mechanics of deformation and failure around single and multiple openings in bedded rock and a manual titled "A Guide to Strata Mechanics in Underground Coal Mines using Base Friction Modelling" for use in training mine personnel in basic principles of strata mechanics.

Health, Safety and Accident Prevention (Phase I). Alberta Construction Association ($3,500 expended). December, 1982 - April, 1983.

To revise and further develop a proposal for an educational project aimed at improving health, safety and accident prevention in the construction industry.

(COMPLETED EDUCATION PROJECTS con't)

Underground Mine Foremen's Training Package. McIntyre Mines Ltd. ($141,522 expended). May, 1982 - March, 1983.

To develop and produce a training program for the purpose of preparing potential mine foremen in the province for the written examination required for qualification as a mine foreman in Alberta, and to provide the knowledge and understanding required for safe operation of a mine operation.

Development of an Occupational Hygiene Technologist Program. Mount Royal College ($60,000 expended). October, 1981 - January, 1983.

To develop an Occupational Hygiene Technologist Program at Mount Royal College.

Evaluation of Student Safety Education Project. County of St. Paul ($10,400 expended). November, 1981 - November, 1982.

To test the feasibility of incorporating general safety information into the school curriculum to increase student knowledge and influence the development of positive safety attitudes.

Training in Occupational Dermatology. K. Barber ($7,000 expended). January, 1982 - July, 1982.

To assist an Alberta dermatologist in further developing his expertise in occupational dermatology at the St. John's Hospital for Diseases of the Skin in London, England.

(COMPLETED PROJECTS con't)

III CONFERENCE AWARDS

How to Start a Back School. Holy Cross Hospital ($750.00 expended). July, 1986 - September, 1986.

To assist two health-care professionals to attend a seminar on the basics for developing re-education and prevention programs on back care.

International Conference on Current National Procedures of Professional Practice - Occupational Hygiene. American Industrial Hygiene Association (Alberta Section) ($3,100.00 expended). May, 1986 - August, 1986.

To assist a representative from an Alberta Industrial Hygiene Association to attend a conference on requirements and qualifications for practicing professional hygienists.

Present Paper / Attend Scientific Conference. Grant MacEwan Community College ($2,609 expended). May, 1986 - July, 1986.

To present a paper as a Canadian representative to the Nursing Committee International Commission on Occupational Health, and to attend a scientific conference on the influence of technology on occupational health.

Occupational Medical Association of Canada - 3rd Annual Conference. Occupational Medical Association of Canada ($5,000 expended). January, 1985 - July, 1986.

To assist with the promotion and planning costs of the 1985 meeting of the Occupational Medical Association of Canada held in Edmonton.

Asbestos Abatement - Train the Trainer. International Association of Heat and Frost Insulators and Asbestos Workers Local 110 ($2,279 expended). July, 1985 - December, 1985.

To provide advanced training in asbestos removal and handling at a National Institute of Occupational Safety and Health course to two experienced Alberta asbestos safety trainers.

1985 ACPTC-WR Conference. Clothing and Textiles Department, Faculty of Home Economics, University of Alberta ($876.00 expended). October, 1985 - November, 1985.

To assist a research associate to attend a conference related to her research in protective clothing.

(COMPLETED CONFERENCE AWARDS con't)

Paper Presentations at Three Conferences. Department of Physical Therapy, University of Alberta ($2,056 expended). October, 1985 - October, 1985.

To assist an Alberta occupational biomechanics researcher to present papers at three conferences on industrial engineering and biomechanics.

Work Design for Performance and Safety. Faculty of Extension, University of Alberta ($1,760 expended). February, 1984 - October, 1985.

To provide managers and supervisors with current information on workplace design and related factors which influence efficiency and safety.

E.M.G. Assessment of Back Injury: Conference. C.C.S.D. Management Ltd. ($1,886 expended). April, 1985 - July, 1985.

To provide support to enable an Alberta psychologist to attend several workshops in the area of chronic pain and back injury directly related to his work funded under the Grant Program.

Occupational Health and Human Rights. Alberta Committee on Occupational Safety and Health (COSH) ($1,000 allocated). March, 1985 - April, 1985.

To assist with the preparation of conference kits and follow-up materials for the one-day seminar to explore the relationship between occupational health and safety and human rights.

International Medichem Congress on Occupational Health in the Chemical Industry (Phase III). Medichem Calgary'83 Association ($7,500 expended). December, 1983 - August, 1984.

To assist in the final phase of planning and promotion for the 11th annual Medichem Congress which will attract an international audience of physicians and others concerned with occupational health problems in the chemical industry.

Comprehensive Review for Industrial Hygiene. Alberta Section of the American Industrial Hygiene Association ($8,988 expended). June, 1983 - February, 1984.

To provide a five day comprehensive review of the industrial hygiene field for practicing hygienists and hygiene technologists. By observing and participating in the review, the Alberta Section members hope to offer a similar program in the future.

'COMPLETED CONFERENCE AWARDS con't)

Permanent Commission and International Association on Occupational Health. Ms. E. Dawson ($1,000 expended). August, 1983 - November, 1983.

To attend and present a paper concerning occupational health nursing at the international conference.

International Medichem Congress on Occupational Health in the Chemical Industry (Phase II). Medichem Calgary'83 Association ($10,000 expended). December, 1982 - April, 1983.

To assist with the second phase of planning of the Medichem Congress.

International Medichem Congress on Occupational Health in the Chemical Industry (Phase I). Medichem Calgary'83 Association ($7,500 expended). June, 1982 - April, 1983.

To assist with initial planning costs of the 11th Annual Medichem Congress to be held in Calgary. This congress will provide a forum for the exchange of information concerning occupational health in the chemical industry.

1982 CSSE Professional Development Conference. Canadian Society of Safety Engineers ($24,458 expended). April, 1982 - November, 1982.

To assist in sponsoring conference speaker costs and workshop programs at the annual professional conference of the Canadian Society of Safety Engineers which is held to keep participants appraised on recent concepts of injury prevention, occupational health, and damage and loss control.

International Conference on Occupational Lung Disease. J. Bachynski ($2,000 expended). January, 1982 - April, 1982.

To assist an Alberta radiologist in attending a conference on occupational lung disease which will provide a forum for update and exchange of new scientific information. The information gained will be shared with others in a seminar upon his return.

Symposium in Occupational Health. A.B. Jones ($3,000 expended). January, 1982 - April, 1982.

To assist the Division of Continuing Medical Education (University of Alberta) in bringing in three speakers from outside the province for the two day symposium which will facilitate the exchange of ideas and scientific information.

(COMPLETED CONFERENCE AWARDS con't)

Dust in Coal Mines. Coal Mining Research Centre ($1,870 expended). November, 1981 - January, 1982.

To assist in sponsoring a seminar during which the results of recent research work related to dust in underground coal mines will be made available to people involved in coal mining.

World Health Organization Conference. Netherlands Occupational Hazards in Hospitals. J. Darcangelo ($2,744 expended). October, 1981 - October, 1981.

To provide support to enable a Calgary nurse to attend a conference on Occupational Hazards in Hospitals. Information gained at the conference will be shared with the nursing profession, government officials and other interested parties.